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Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/632,504
Filing Date	August 1, 2003
First Named Inventor	Donald J. Frasier et al.
Group Art Unit	1765
Examiner Name	
Attorney Docket Number	6001-963

U.S. PATENT DOCUMENTS

Examiner Signature		Date Considered	5/5/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

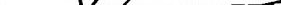
¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/632,504
				Filing Date	August 1, 2003
				First Named Inventor	Donald J. Frasier
				Group Art Unit	1765
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	6001-963

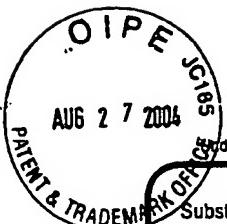
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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006001-000963.JHA.300091 WEMMH/SB/08A (4/03)

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number-Kind Code ¹ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		US-833,150	10-16-1906	Attenhoper	
		US-1,983,580	12-11-1934	Nock, Jr.	
		US-3,099,053	07-30-1963	Eliot	
		US-3,530,927	09-29-1970	Lejeune	
		US-3,532,154	10-06-1970	Balevski et al.	
		US-3,608,621	09-28-1971	Bollig et al.	
		US-3,763,926	10-09-1973	Tschinkel et al.	
		US-3,788,382	01-29-1974	Daniel et al.	
		US-4,061,176	12-06-1977	Carbonnel	
		US-4,066,117	01-23-1978	Clark et al.	
		US-4,114,675	09-19-1978	Buhrer	
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		US-4,668,288	05-26-1987	Ouchi et al.	
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		US-4,909,422	03-20-1990	Muller	
		US-5,048,591	09-17-1991	Oti et al.	
		US-5,111,870	05-12-1992	Cook	
		US-5,190,674	03-02-1993	Monks	
		US-5,244,031	09-14-1993	Cook et al.	

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Date Considered

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Application Number	10/833,439 - 10/632,504
Filing Date	August 1, 2003
First Named Inventor	Donald J. Frasier et al.
Group Art Unit	1725
Examiner Name	

Attomev Docket Number 6001-962

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
✓		US-5,291,937	03-08-1994	Corderman et al.	
		US-5,295,530	03-22-1994	O'Connor	
		US-5,309,976	05-10-1994	Prichard et al.	
		US-5,335,711	08-09-1994	Paine	
		US-5,346,184	09-13-1994	Ghosh	
		US-5,404,930	04-11-1995	Stanton et al.	
		US-5,484,008	01-16-1996	Thompson	
		US-5,509,458	04-23-1996	Onuma et al.	
		US-5,515,906	05-14-1996	Thomson et al.	
		US-5,551,502	09-03-1996	Matsabayashi et al.	
		US-5,592,984	01-14-1997	Schmiedeknecht et al.	
		US-5,744,050	04-28-1998	Shaw	
		US-5,860,468	01-19-1999	Cook	
		US-5,894,880	04-20-1999	Hohenbichler	
		US-5,913,358	06-22-1999	Chadwick	
✓		US-5,988,257	11-23-1999	Hugo	
✓		US-6,103,182	08-15-2000	Campbell	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)				

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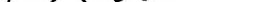
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Sheet	3	of	3
		Attorney Docket Number	6001-963

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
U		Horton, Robert A., "Investment Casting", PCC Airfoils, Inc., pp. 253-269.	

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